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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

Donna Bishel
Technical Director
BioSafe Systems, LLC
22 Meadow Street
East Hartford, CT 06108

NOV 03 2014

Subject: Label Amendment to Revise Directions for Use
Product Name: OxiPhos
EPA Reg. No: 70299-22
Your Submission Dated July 24, 2014

Dear Ms. Bishel:

The amendment referred to above, submitted in-connection with registration under FIFRA section 3(c)(5), is acceptable provided that you:

1. Submit and/or cite all data required for registration of your product under FIFRA section 3(c)(5) and section 4 when the Agency requires all registrants of similar products to submit such data.
2. Submit three (3) copies of your final printed labeling before you release the product for shipment. Final printed labeling means the label or labeling of the product when distributed or sold. Clearly legible reproductions or photo reductions will be accepted for unusual labels, such as those silk-screened directly onto glass or metal containers or large bags or drum labels.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions. Should you have any questions regarding this action, you may contact Gina Burnett at (703) 605-0513 or via email at burnett.gina@epa.gov. A stamped copy of the label is enclosed for your records.

Sincerely,

Linda A. Hollis, Chief
Biochemical Pesticides Branch
Biopesticides and Pollution
Prevention Division (7511P)

CONCURRENCES							
SYMBOL	▶ 751P	7511P					
SURNAME	▶ Burnett	COLE					
DATE	▶ 10/31/14	10/31/14					

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

DANGER: Corrosive. Causes skin burns. Causes irreversible eye damage. Harmful if swallowed. Harmful if inhaled. Avoid breathing vapor or spray mist. Do not get in eyes, on skin, or on clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Handlers who may be exposed to the undiluted product through mixing, loading, application, or other tasks must wear: coveralls over long-sleeved shirt and long pants, rubber gloves, chemical resistant footwear plus socks, and protective eyewear (goggles or face shield). Handlers who may be exposed to the dilute through application or other tasks must wear: long-sleeved shirt and long pants, and shoes plus socks. Follow manufacturer's instructions for cleaning / maintaining PPE. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product. Do not reuse them. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS

Users should:

- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash waters or rinsate. This pesticide is toxic to birds. This pesticide is toxic to fish and aquatic organisms. Do not apply to water. Drift and runoff from treated areas may be hazardous to fish and aquatic organisms in adjacent aquatic sites.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Do not apply this product through any irrigation system unless the chemigation instructions on this label are followed. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation.

Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted entry intervals (REI). The requirements in this box apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow entry into treated areas during the restricted entry interval (REI) of 4 hours. PPE required for early entry into treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated such as plants, soil, or water, is:

Long-sleeved shirt and long pants
 Waterproof gloves
 Shoes plus socks

There is a restricted entry of zero (0) hours for chemigation, pre-plant dip, seed treatment, soil drench, soil incorporation, tree injection or paint, or other non-spraying application methods when used in enclosed environments such as glasshouses and greenhouses.

For field applications:
 Keep unprotected persons out of treated areas until sprays have dried.

Engineering Controls Statement: When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d) (4-5)], the handler PPE requirements may be reduced or modified as specified in the WPS.

Non-Agricultural Use Requirements

The requirements in this box apply to uses of this product that are **not** within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries or greenhouses. For other uses including golf courses and other non-agricultural uses, do not enter treated areas without protective clothing until sprays have dried.

APPLICATION DIRECTIONS

- Mixing this product with certain surfactants, foliar fertilizers, or other pesticides can cause crop injury. Determine crop sensitivity to a particular combination by spraying a small area of foliage and fruit. Evaluate 3 to 7 days later for adverse effects.
- Do not use at higher than labeled rates as leaf burn may result. Not every species or variety of ornamental plant has been tested for its tolerance to this product. Since OxiPhos has not been tested on all plant species, it is always advisable to test OxiPhos on a few plants before treating large numbers.
- Determine the compatibility of this product with any other product by mixing approximately 1 pint of this product spray solution with other products in the same proportion and order as the contemplated use. The mixture will typically show signs of incompatibility within 5 to 15 minutes. Do not use this mixture if any signs of incompatibility appear. If a tank mixture is being considered, read and follow all directions and precautions on this product label and on the labels of any products that will be used in the tank mixture.
- Mixing of this product with other products has been known to increase the salt content and the potential for fruit burn. Environmental factors that could exasperate burn potential include applying product during the following conditions: 1) temperatures above 90°F, 2) shortly after a rain event, 3) during color break of the fruit. Apply with extreme caution when these conditions exist. Determine crop sensitivity to these factors by spraying small areas of foliage and fruit. Evaluate 7 to 10 days later for adverse effects.



Application Instructions

Crops and Diseases (Alphabetical by Crop Grouping)

Crop	Disease	Application Method	Rate	Directions
Alfalfa	Bacterial Wilt Downy Mildew	Foliar Spray	2.5-5.0 Quarts/A	Apply product as a dilute spray (Not to exceed 2.5% v/v (1:40) concentration in water). Ensure complete coverage of foliage. Repeat applications on 7-14 day interval.
Asparagus	Crown Rot and Asparagus Spear Lime (<i>Phytophthora</i> spp.)	Foliar Spray	2.5-5.0 Quarts/A	Apply to ferns that have 2 to 3 inches of new growth. Do not apply to ferns that are starting to die down. Established plantings, start applications when conditions are favorable to disease (cool wet conditions). Ensure thorough coverage.
Avocado	Canker and Crown Rot (<i>Phytophthora citricola</i>) Root Rot (<i>Phytophthora cinnamomi</i>)	Trunk Spray Foliar Spray Trunk Injection Root Dip Irrigation (Sprinkler or Drip)	2.5-5.0 Quarts/A	For trunk spray, thoroughly wet the lesions present on the trunk. Also, spray thoroughly on any fresh wounds from pruning. Repeat applications as required. For foliar spray, apply product as a dilute spray (Not to exceed 2.5% v/v (1:40) concentration in water). Spray to run-off as required. Repeat applications on 7-14 day interval. As a trunk injection, use 6 teaspoons per linear yard of canopy width or 2 inch of trunk diameter at breast height (DBH). Inject directly into tree. Repeat 2-4 times a year as required. Follow injection equipment instructions when applying the product. As a pre-plant root dip, use 2.0 Quarts per 100 gallons of water and dip the roots for at least 30 seconds. Plant within 24 hrs. after dipping.

<p>Berries: Blackberry Blueberry Cranberry Raspberry</p>	<p>Bacterial Blight/Canker Downy Mildew Root Rot (<i>Phytophthora</i> spp.)</p>	<p>Foliar Spray Root Dip Irrigation (Overhead or Drip)</p>	<p>2.5-5.0 Quarts/A</p>	<p>As a foliar spray, apply product as a dilute spray (Not to exceed 2.5% v/v (1:40) concentration in water). Ensure complete coverage of foliage. Repeat applications on 7-14 day interval.</p> <p>As a pre-plant dip, mix 2.0 Quarts per 100 gallons of water and dip the roots for at least 30 seconds. Plant within 24 hrs after dipping.</p> <p>When applying through irrigation, make first application immediately after planting (For new plantings) and repeat on a 2-3 week interval as required.</p>
<p>Bulb Vegetables: Garlic Green Onions Leeks Onions Scallions Shallots</p>	<p>Bacterial Leaf Blight Bacterial Soft Rot Downy Mildew</p>	<p>Foliar Spray Irrigation (Overhead or Drip)</p>	<p>2.5-5.0 Quarts/A</p>	<p>As a foliar spray, apply product as a dilute spray (Not to exceed 2.5% v/v (1:40) concentration in water). Ensure complete coverage of foliage. Repeat applications on 7-14 day interval.</p> <p>For Bacterial Soft Rot control, start applications when onions start to bulb and repeat applications on 14-21 day interval until harvest.</p>

<p>Cereal Grains & Commodities: Barley Corn (field) Millet Oats Popcorn Rice Rye Sorghum (Milo) Soybeans Sweet Corn Wheat Wild Rice</p>	<p>Bacterial Blight Downy Mildew</p>	<p>Foliar Spray</p>	<p>2.5-5.0 Quarts/A</p>	<p>Apply product as a dilute spray (not to exceed 2.5% v/v (1:40) concentration in water). Ensure complete coverage of foliage. Repeat applications on 7-14 day interval.</p>
<p>Citrus Crops: Citrus Hybrids Grapefruit Kumquat Lemon Limes Orange Tangerine</p>	<p>Phytophthora Gummosis Foot, Root and Brown Rot Citrus Canker</p>	<p>Foliar Spray Trunk Spray Irrigation (Drip/Microsprinkler/ Overhead) Drench</p>	<p>2.5-5.0 Quarts/A</p>	<p>For foliar spray, make preventative foliar applications during spring and fall. Ensure complete coverage (about 100-250 gal/acre).</p> <p>As a trunk spray, mix in 5-10 gallons of water and apply directly to trunk lesions. Use higher rate when lesions are present.</p> <p>As a seedling drench, mix 0.5-1.0 gallon per 100 gallons of water. Apply 0.5 pints of solution per seedling in a 2 gallon soil sleeve or pot once every 2 months. Test for phytotoxicity on seedlings when using highest rate.</p> <p>For Citrus Canker control, start applications in early spring and continue applications until early Fall (a total of 9-10 applications on 14-21 day interval). Ensure complete coverage of foliage (about 100-250 gal/acre).</p>
<p>Cole Crops: Broccoli Brussels Sprouts Cabbage Cauliflower Collards Kale</p>	<p>Black Rot Downy Mildew</p>	<p>Foliar Spray</p>	<p>2.0-5.0 Quarts/A</p>	<p>Apply product as a dilute spray (not to exceed 2.5% v/v (1:40) concentration in water). Ensure complete coverage of foliage. Repeat applications on 7-14 day interval.</p>

<p>Cucurbit crops: Cucumber Melons Pumpkin Squash</p>	<p>Root and Fruit Rot (<i>Phytophthora</i> spp.) Downy Mildew Powdery Mildew Angular Leaf Spot</p>	<p>Foliar Spray Irrigation (Drip/Overhead)</p>	<p>2.0-5.0 Quarts/A</p>	<p>As a foliar spray, apply product as a dilute spray (not to exceed 2.5% v/v (1:40) concentration in water). Ensure complete coverage of foliage. Repeat applications on 7-14 day interval. When applying through irrigation, make first application immediately after planting and repeat applications on 14-21 day interval.</p>
<p>Fruiting Vegetables: Eggplant Peppers Tomato Tomatillo</p>	<p>Late Blight and root rot (<i>Phytophthora infestans</i> and <i>Phytophthora</i> spp.) Bacterial Spot and Speck Powdery Mildew Bacterial Wilt</p>	<p>Foliar Spray Irrigation (Drip/Overhead)</p>	<p>2.5-5.0 Quarts/A</p>	<p>As a foliar spray, apply product as a dilute spray (not to exceed 2.5% v/v (1:40) concentration in water). Ensure complete coverage of foliage. Repeat applications on 7-14 day interval. When applying through irrigation, make first application immediately after planting and repeat applications on 14-21 day interval.</p>
<p>Ginseng</p>	<p>Foliar and Root Rot (<i>Phytophthora cactorum</i>)</p>	<p>Foliar Spray</p>	<p>2.5-5.0 Quarts/A</p>	<p>Apply product as a dilute spray (not to exceed 2.5% v/v (1:40) concentration in water). Ensure complete coverage of foliage. Repeat applications on 7-14 day interval.</p>
<p>Grapes</p>	<p>Downy Mildew Powdery Mildew</p>	<p>Foliar Spray</p>	<p>2.5-5.0 Quarts/A</p>	<p>Apply product as a dilute spray (not to exceed 2.5% v/v (1:40) concentration in water). Ensure complete coverage of foliage. Repeat applications on 7-14 day interval.</p>
<p>Herbs and Spices: Basil Chives Cilantro Coriander Dill Mint Rosemary Sage</p>	<p>Downy Mildew Bacterial Leaf Spot</p>	<p>Foliar Spray</p>	<p>2.5-5.0 Quarts/A</p>	<p>Apply product as a dilute spray (not to exceed 2.5% v/v (1:40) concentration in water). Ensure complete coverage of foliage. Repeat applications on 7-14 day interval.</p>

Hops	Downy Mildew Powdery Mildew	Foliar Spray	5.0 Quarts/A	Apply product as a dilute spray (not to exceed 2.5% v/v (1:40) concentration in water). Ensure complete coverage of foliage. Repeat applications on 7-14 day interval.
Kiwifruit	Phytophthora Root and Crown Rot	Foliar Spray Irrigation (Overhead/Drip) Root Dip	2.5-5.0 Quarts/A	As a foliar spray, apply product as a dilute spray (not to exceed 2.5% v/v (1:40) concentration in water). Ensure complete coverage of foliage. Repeat applications on 7-14 day interval. When applying through irrigation, make first application immediately after planting and repeat applications on 14-21 day interval. As a root dip, use 2.0 quarts per 100 gallons of Water. Dip the roots for at least 30 seconds and plant within 24 hrs after dipping.
Leafy Vegetables: Arugula Celery Chicory Root Endive Fennel Lettuce Spinach Rhubarb Radicchio Swiss Chard	Bacterial Leaf Spot Downy Mildew Powdery Mildew	Foliar Spray	1.0-5.0 Quarts/A	Apply product as a dilute spray (not to exceed 2.5% v/v (1:40) concentration in water). Ensure complete coverage of foliage. Repeat applications on 7-14 day interval.
Legumes: Chick Peas Dry Beans Lima Beans Peas Snap Beans	Bacterial Blight Powdery Mildew <i>Pythium</i> spp. Downy Mildew	Foliar Spray	2.5-5.0 Quarts/A	Apply product as a dilute spray (not to exceed 2.5% v/v (1:40) concentration in water). Ensure complete coverage of foliage. Repeat applications on 7-14 day interval.
Papaya	Phytophthora Root Rot	Foliar Spray	2.5-5.0 Quarts/A	Apply product as a dilute spray (not to exceed 2.5% v/v (1:40) concentration in water). Ensure complete coverage of foliage. Repeat applications on 7-14 day interval.
Peanuts	Damping-off and Pod Rot (<i>Pythium</i> spp.)	Foliar Spray Irrigation (Overhead)	2.5-5.0 Quarts/A	Make 1-2 applications immediately after planting and repeat during pegging stage (60-90 days after planting).

<p>Pineapple</p>	<p>Phytophthora Root and Heart Rot</p>	<p>Pre-Plant Dip</p> <p>Foliar Spray</p>	<p>2.5-5.0 Quarts/A</p>	<p>As a pre-plant dip of slips, use 2.5 quarts per 100 gallons of water. Dip the slips for at least 30 seconds prior to planting.</p> <p>For established planting, apply as a foliar spray using 100 gallons of spray mixture per acre. Ensure thorough coverage. Repeat applications once a month.</p>
<p>Pome Fruit: Apple Pear Loquat Mayhaw Quince</p>	<p>Root and Collar Rot (<i>Phytophthora cactorum</i>)</p> <p>Fire Blight (<i>Erwinia amylovora</i>)</p> <p>Fly Speck</p> <p>Sooty Blotch</p>	<p>Foliar Spray</p>	<p>1.3-5.0 Quarts/A</p>	<p>For Fire Blight control, make applications during bloom and petal fall stages.</p> <p>Apply product as a dilute spray (not to exceed 2.5% v/v (1:40) concentration in water). Ensure thorough spray coverage.</p>
<p>Potato Pre-Harvest</p>	<p>Late Blight (<i>Phytophthora infestans</i>)</p> <p>Pink Rot (<i>Phytophthora erythroseptica</i>)</p> <p>Pythium Leak (<i>Pythium</i> spp.)</p>	<p>Foliar Spray</p> <p>In-furrow</p>	<p>2.5-10 Quarts/Acre</p> <p>4.0-10 Quarts/Acre</p>	<p>As a foliar spray, apply once every 7-14 days depending on disease conditions. Product can be rotated with other fungicides labeled for Late Blight.</p> <p>As In-furrow application, apply in a band directly over the seed pieces prior to row closure using 5-10 gallons of water per acre. Additional in-season foliar applications may be necessary.</p>
<p>Potato Post-Harvest</p>	<p>Pink Rot (<i>Phytophthora erythroseptica</i>)</p> <p>Late Blight (<i>Phytophthora infestans</i>)</p> <p>Pythium Leak (<i>Pythium</i> spp.)</p> <p>Bacterial Soft Rot</p> <p>Early Blight</p> <p>Fusarium Tuber Rot</p> <p>Silver Scurf</p>	<p>Post-harvest Spray/ Fog/Direct Injection into humidification water</p>	<p>6.4-25.6 fl.oz/ton of potatoes</p>	<p>As a spray, mix product in 0.25-1.0 gallon of water per ton of potatoes (1:5 dilution). Ensure complete and even coverage.</p> <p>Use higher rates when high disease pressure is expected due to wet conditions in the field.</p> <p>As a fog, make first application immediately after potatoes are stored and repeat as necessary during the storage season.</p>

11/21

Sugar Beet	Botrytis Storage Rot	Post-Harvest Spray	2.56-12.8 fl.oz/ton	As a post-harvest spray, mix in 0.25-0.5 gallons of water per ton and spray thoroughly before going into storage
	Bacterial Leaf Spot/Leaf Blight	Foliar Spray	2.5-5.0 Quarts/Ton	As a foliar spray, apply product as a dilute spray (not to exceed 2.5% v/v (1:40) concentration in water). Ensure thorough spray coverage.
	Pythium/Phytophthora Root Rots	Irrigation	2.5-5.0 Quarts/Ton	
Other Root & Tuber Vegetables: Artichoke Beet Carrot Horseradish Parsnip Radish Rutabaga Sweet Potato Taro Turnip Yams	Bacterial Soft Rot	Foliar Spray	2.5-5.0 Quarts/A	As a foliar spray, apply product as a dilute spray (not to exceed 2.5% v/v (1:40) concentration in water). Ensure thorough spray coverage.
	Bacterial Leaf Blight			
	Powdery Mildew	Irrigation (Overhead/Drip)		When applying through irrigation, make first application immediately after planting and repeat applications on 14-21 day interval as required.
Stone Fruit: Apricot Cherry Nectarine Peach Plum Prune	Bacterial Canker	Foliar Spray	2.5-5.0 Quarts/A	As a foliar spray, apply product as a dilute spray (not to exceed 2.5% v/v (1:40) concentration in water). Ensure thorough spray coverage.
	Powdery Mildew	Irrigation (Overhead/Drip)		
	Phytophthora Root and Crown Rot			

<p>Strawberry</p>	<p>Angular Leaf Spot</p> <p>Powdery Mildew</p> <p>Red Stele (<i>Phytophthora fragariae</i>)</p> <p>Leather Rot (<i>Phytophthora cactorum</i>)</p> <p>Phytophthora Crown Rot</p>	<p>Foliar Spray</p> <p>Pre-planting dip</p> <p>Irrigation (Drip)</p>	<p>2.5-5.0 Quarts/A</p>	<p>As a foliar spray, apply product as a dilute spray (not to exceed 2.5% v/v (1:40) concentration in water). Ensure thorough spray coverage. Repeat applications on 7-14 day interval as required.</p> <p>As a pre-plant dip, use 2.5 quarts per 100 gallons of water. Dip roots and crowns for at least 2 minutes prior to planting.</p> <p>When applying through irrigation, make first application immediately after planting and repeat applications on 14-21 day interval as required.</p>
<p>Tobacco</p>	<p>Black Shank (<i>Phytophthora spp.</i>)</p>	<p>Foliar Spray</p>	<p>2.5-5.0 Quarts/A</p>	<p>As a foliar spray, apply product as a dilute spray (not to exceed 2.5% v/v (1:40) concentration in water) after transplants have been established. Ensure thorough spray coverage. Repeat applications on 7-14 day interval as required.</p>
<p>Tree Nuts: Almond Brazil Nut Cashew Filbert Macadamia Pecan Pistachio Walnut</p>	<p>Bacterial Canker</p> <p>Powdery Mildew</p> <p>Phytophthora Root and Crown Rot</p> <p>Almond Pruning-Wound Cankers (<i>Phytophthora syringae</i>.)</p> <p>Phytophthora Raceme blight</p> <p>Pecan Scab</p>	<p>Foliar Spray</p> <p>Irrigation (Overhead/Drip)</p> <p>Paint or Spray</p>	<p>2.5-5.0 Quarts/A</p>	<p>As a foliar spray, apply product as a dilute spray (not to exceed 2.5% v/v (1:40) concentration in water). Ensure thorough spray coverage. Repeat applications on 7-14 day interval as required.</p> <p>As a paint/spray, apply diluted solution to the pruning wound area.</p>

ORNAMENTALS

Apply this product for effective control of Downy Mildew, diseases caused by *Phytophthora* spp. and *Pythium* spp., Sudden Oak Death of ornamentals in landscapes and bacterial diseases caused by certain pathovars of *Xanthomonas* and *Pseudomonas* spp. Apply OxiPhos to plants such as Aglaonema, Aphelandra, Arborvitae, Azaleas, Bougainvillea, Boxwood, Cattelya skinneri, Ceanothus, Cotoneaster, Cissus, Diffenbachia, English ivy, Eucalyptus, Ficus, Hibiscus, Japanese andromeda, Japanese Holly, Leather leaf Fern, Peperomia, Photinia, Pittosporum, Philodendron, Pieris, Pothos, Rhododendron, Roses (container, landscape, mini varieties), Schefflera, Sedum, Sempervivum, Syngonium, Spathiphyllum, Taxus media, and Zygocactus. Make applications before disease development and in conjunction with good cultural management practices. Use higher rate of application when disease pressure is severe. To prevent plant injury, do not exceed the rates or application frequency. Do not apply to plants that are heat or moisture stressed.

Disease	Application Method	Dilution Rate	Application Rate	Directions
Downy Mildew	Foliar Spray	1:100-1:300	1.3-4.0 Quarts of OxiPhos per 100 gallons of water	Apply at first sign of disease and repeat as needed at 7-14 day interval. Ensure thorough wetness of all foliage. Use the higher rate when disease pressure is severe.
	Soil Drench	1:500-1:1000	12.8-25.6 fl. oz. per 100 gallons of water	As a drench, apply 1-2 pints of mixed solution per sq.ft. Repeat as necessary.
Bacterial Blight Bacterial Leaf Spot <i>Phytophthora</i> spp. and <i>Pythium</i> spp.	Foliar Spray	1:100-1:300	1.3-4.0 Quarts of OxiPhos per 100 gallons of water	Apply at first sign of disease and repeat as needed at 7-14 day interval. Ensure thorough wetness of all foliage. Use the higher rate when disease pressure is severe.
	Soil Drench	1:500-1:1000	12.8-25.6 fl.oz. per 100 gallons of water	As a drench, apply 1-2 pints of mixed solution per sq.ft. Repeat as necessary.
	Transplant Dip	1:500	2.56 fl.oz. per 10 gallons of water	Dip the transplants for at least 30 seconds immediately before transplanting. Ensure root mass is thoroughly wet.

BEDDING PLANTS

Apply OxiPhos for effective control of Downy Mildew and diseases caused by *Phytophthora* spp. and *Pythium* spp. in bedding plants. Use on bedding plant species such as Ageratum, Algerian Ivy, Anthurium, Artemesia, Aster, Begonia, Baby's Breath, Caladium, Carnation, Chrysanthemum, Columbine, Coleus, Daisy, Delphinium, Easter Lily, English Ivy, Foxglove, Gaillardia, Geranium, Gloxinia, Impatiens, Marigold, Petunia, Pansy, Phlox, Pinks, Poinsettia, Primrose, Prostrate Rosemary, Salvia, Snapdragon, Vinca, Verbena, and Zinnia. Make applications before disease development and in conjunction with good cultural management practices. Use higher rate of

application when disease pressure is severe. To prevent plant injury, do not exceed the rates or application frequency. Do not apply to plants that are heat or moisture stressed.

Disease	Application Method	Dilution Rate	Application Rate	Directions
Downy Mildew	Foliar Spray	1:100-1:300	1.3-4.0 Quarts of OxiPhos per 100 gallons of water	Apply at first sign of disease and repeat as needed at 7-14 day interval. Ensure thorough wetness of all foliage. Use the higher rate when disease pressure is severe.
	Soil Drench	1:500-1:1000	12.8-25.6 fl.oz. per 100 gallons of water	As a drench, apply 1-2 pints of mixed solution per sq.ft. Repeat as necessary.
Bacterial Blight Bacterial Leaf Spot <i>Phytophthora</i> spp. and <i>Pythium</i> spp.	Foliar Spray	1:100-1:300	1.3-4.0 Quarts of OxiPhos per 100 gallons of water	Apply at first sign of disease and repeat as needed at 7-14 day interval. Ensure thorough wetness of all foliage. Use the higher rate when disease pressure is severe.
	Soil Drench	1:500-1:1000	12.8-25.6 fl.oz. per 100 gallons of water	As a drench, apply 1-2 pints of mixed solution per sq.ft. Repeat as necessary.
	Transplant Dip	1:500	2.56 fl.oz. per 10 gallons of water	Dip the transplants for at least 30 seconds immediately before transplanting. Ensure root mass is thoroughly wet.

CONIFERS

Disease	Application Method	Dilution Rate	Application Rate	Directions
<i>Phytophthora</i> Root Rot	Foliar Spray	1:100-1:300	1.3-4.0 Quarts of OxiPhos per 100 gallons of water	Apply at first sign of disease and repeat as needed at 7-14 day interval. Ensure thorough wetness of all foliage. Use the higher rate when disease pressure is severe.
	Soil Drench	1:500-1:1000	12.8-25.6 fl.oz. per 100 gallons of water	As a drench, apply 1-2 pints of mixed solution per sq.ft. Repeat as necessary.
	Transplant Dip	1:500	2.56 fl.oz. per 10 gallons of water	Dip the transplants for at least 30 seconds immediately before transplanting. Ensure root mass is thoroughly wet.

TURF

Apply this product to turf grasses, such as those found on golf courses and sod farms, for the control of *Pythium* diseases and Yellow Tuft.

Disease	Application Method	Application Rate	Directions
Pythium Blight Yellow Tuft	Foliar Spray	8.0-12.0 fl.oz. per 1000 sq.ft.	Apply in 1-5 gallons of water per 1000 sq.ft. Ensure foliage is thoroughly wet. Repeat as required at 14-21 day application interval. Do not irrigate or mow treated areas until spray had completely dried.

CHEMIGATION:

General Requirements -

- 1) Apply this product only through a drip system or sprinkler including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, hand move, flood (basin), furrow, border or drip (trickle) irrigation systems. Do not apply this product through any other type of irrigation system.
- 2) Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water.
- 3) If you have questions about calibration, contact State Extension Service specialists, equipment manufacturers or other experts.
- 4) Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.
- 5) A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments as needed.
- 6) Posting of areas to be chemigated is required when 1) any part of a treated area is within 300 feet of sensitive areas such as residential areas, labor camps, businesses, day care centers, hospitals, in-patient clinics, nursing homes or any public areas such as schools, parks, playgrounds, or other public facilities not including public roads, or 2) when the chemigated area is open to the public such as golf courses or retail greenhouses.
- 7) Posting must conform to the following requirements. Treated areas shall be posted with signs at all usual points of entry and along likely routes of approach from the listed sensitive areas. When there are no usual points of entry, signs must be posted in the corners of the treated areas and in any other location affording maximum visibility to sensitive areas. The printed side of the sign must face away from the treated area towards the sensitive area. The signs shall be printed in English. Signs must be posted prior to application and must remain posted until foliage has dried and soil surface water has disappeared. Signs may remain in place indefinitely as long as they are composed of materials to prevent deterioration and maintain legibility for the duration of the posting period.
- 8) All words shall consist of letters at least 2.5 inches tall, and all letters and the symbol shall be a color which sharply contrasts with their immediate background. At the top of the sign shall be the words KEEP OUT, followed by an octagonal stop sign symbol at least 8 inches in diameter containing the word STOP. Below the symbol shall be the words PESTICIDES IN IRRIGATION WATER.

Specific Requirements for Chemigation Systems Connected to Public Water Systems -

- 1) Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.
- 2) Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system must be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.
- 3) The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- 4) The pesticide injection pipeline must contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- 5) The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.
- 6) Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
- 7) Do not apply when wind speed favors drift beyond the area intended for treatment.

Specific Requirements for Sprinkler Chemigation -

- 1) The system must contain a functional check valve, vacuum relief valve and low-pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
- 2) The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- 3) The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- 4) The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- 5) The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
- 6) Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being filled with a system interlock.
- 7) Do not apply when wind speed favors drift beyond the area intended for treatment.

Specific Requirements for Flood (Basin), Furrow and Border Chemigation -

- 1) Systems using a gravity flow pesticide dispensing system must meter the pesticide into the water at the head of the field and downstream of a hydraulic discontinuity such as a drop structure or weir box to decrease potential for water source contamination from backflow if water flow stops.
- 2) The systems utilizing a pressurized water and pesticide injection system must meet the following requirements:

- a. The system must contain a functional check valve, vacuum relief valve and low-pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
- b. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- c. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- d. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- e. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
- f. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being filled with a system interlock.

Specific Requirements for Drip (Trickle) Chemigation -

- 1) The system must contain a functional check valve, a vacuum relief valve and low-pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
- 2) The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- 3) The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- 4) The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- 5) The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
- 6) Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being filled with a system interlock.

Application Instructions -

- 1) Remove scale, pesticide residues, and other foreign matter from the chemical supply tank and entire injector system. Flush with clean water until no scale or pesticide residues are present. Failure to provide a clean tank, void of scale or residues may cause product to lose effectiveness or strength.
- 2) Determine the treatment rates as indicated in the directions for use and make proper dilutions.
- 3) Prepare a solution in the chemical tank by filling the tank with the required amount of water and then adding product as required. The product will immediately go into suspension without any agitation.
- 4) Do not apply OxiPhos in conjunction with any other pesticides or fertilizers; this has the potential to cause reduced performance of the product.

18/21

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

PESTICIDE STORAGE

Store in original containers in a cool, well-vented area, away from direct sunlight. Do not allow product to become overheated in storage. This may cause increased degradation of the product, which will decrease product effectiveness. In case of spill, flood area with large quantities of water. Do not store in a manner where cross-contamination with other pesticides or fertilizers could occur.

PESTICIDE DISPOSAL

Pesticide wastes may be hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label directions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL (Containers equal to or less than 5 gallons): Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordinances.

CONTAINER DISPOSAL (Containers greater than 5 gallons): Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution for 30 seconds. Stand the container on its end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordinances.

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of BIOSAFE SYSTEMS LLC or Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold BIOSAFE SYSTEMS and Seller harmless for any claims relating to such factors.

BIOSAFE SYSTEMS warrants that this product conforms to the *chemical* description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above when used in accordance with directions under normal use conditions. This warranty does not extend to the use of the product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or BIOSAFE SYSTEMS, and Buyer and User assume the risk of any such use. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BIOSAFE SYSTEMS MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE, NOR ANY OTHER EXPRESSED OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

To the extent consistent with applicable law, in no event shall BIOSAFE SYSTEMS or Seller be liable for any incidental, consequential or special damages resulting from the use or handling of this product. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF BIOSAFE SYSTEMS AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF BIOSAFE SYSTEMS OR SELLER, THE REPLACEMENT OF THE PRODUCT.

BIOSAFE SYSTEMS and Seller offer this product, and Buyer and User accept it, subject to the foregoing Conditions of Sale and Limitation of Warranty and Liability, which may not be modified except by written agreement signed by a duly authorized representative of BIOSAFE SYSTEMS.

Optional Label Claims

- Fungicide
- Bactericide
- Broad Spectrum
- Broad Spectrum Bactericide/Fungicide
- Preventative treatment for ornamental plants and turf.
- A treatment for the prevention and suppression / control of horticultural diseases in Greenhouses, Garden Centers, Landscapes, Nurseries
- A treatment for the prevention and control of plant pathogens in field grown crops, commercial greenhouses, and storage sites.
- A post harvest treatment for the prevention and control of plant pathogens on potatoes and sugar beets
- Made in USA
- Improve Crop Quality in Storage
- Biopesticide
- Promotes plant growth and increases yield
- Controls soil borne and foliar diseases
- Field and Greenhouse uses
- Easily mixes with water- no agitation required
- For use in irrigation systems

21/21

IMPORTANT INFORMATION

PLEASE READ BEFORE DISPENSING PRODUCT

This product is a formulation of stabilized hydrogen peroxide and phosphorus acid. It is both corrosive and an oxidizer. There are very specific materials of construction that are compatible with this product to use as part of any dispensing equipment.

NEVER USE: • Brass • Copper • Galvanized Steel • Black Iron / Steel • Natural Rubber
Or any other material other than what is listed below.

BioSafe Systems recommends the use of the following materials for all tubing, piping, connectors or fittings that contact the concentrate:

- Stainless steel (304, 316) (pipe or fittings)
- Polypropylene (fittings or tubing)
- PVC (polyvinyl chloride) (pipe)
- Polyamides
- Polyethylene (tubing)
- Polymethyl methacrylate
- Polysulfone
- Cellulose acetate
- Cuprophan
- SMC (synthetically modified cellulose)
- Teflon® TFE (tetrafluoroethylene) (tubing)
- KYNAR® PVDF (polyvinylidene fluoride) (fittings)
- EPDM (ethylene propylene diene monomer) (tubing)
- Silicone
- Viton® fluorocopolymer (tubing)
- Santoprene (tubing)

BioSafe Systems recommends a number of products that may be used to safely dispense any of our activated peroxxygen products such as: Dosatron Proportional Pumps, Goat Throat Hand Pumps, or Prominent Metering Pumps.

Handling and Disposal of Unused Product

Once diluted in spray tank/mixing tank, do not return any unused portion to original container to avoid risk of contamination from other residual chemistries. Follow disposal instructions specified on label.

For more information on dosing equipment and compatible material, call our toll-free number at 1.888.273.3088.

BioSafe Systems® LLC
Simply Sustainable. Always Effective.

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p. 20